

**ABSTRACT**

**ORTHOPAEDIC SURGERY PLANNING**

5           A computer-implemented method of planning orthopaedic surgery comprises  
providing a library of templates representing orthopaedic prostheses, displaying and  
scaling one or more patient images such as X-ray images, allowing a user to  
reconfigure geometrical constructs displayed over the images to match the construct  
to anatomical features shown in the image; and selecting one or more templates from  
10 the library in accordance with parameters of the reconfigured constructs. The  
templates correspond to the orthopaedic prosthesis or prostheses which are most  
suitable for the patient. Hip replacement surgery can be planned using a single patient  
image. Knee surgery can be planned using two patient images showing different  
views of the anatomical features, in which case geometrical constructs for use with  
15 each view are provided. The library of templates is accessible via the Internet so as to  
be accessible by users in any location and readily updateable.